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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 3841	
09/657,050	09/07/2000	Hideaki Amano	08038.0019		
22852	7590 05/08/2002				
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW			EXAMINER		
			PADGETT, MARIANNE L		
WASHINGTO	N, DC 20005		ART UNIT	PAPER NUMBER	
			1762	~	
			DATE MAILED: 05/08/2002	/	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.		Applicant(s)	
Office Action Summary	Examiner _	77/	nano	
	M.L.Pal	W-	Group Art Unit	ż
-The MAILING DATE of this communication appears of	on the cover sheet b	beneath the		ess —
				-
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	MONTH	I(S) FROM THE MAILII	NG DATE
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, such period shall, by default, or Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b). 	ly within the statutory m expire SIX (6) MONTHS f te, cause the application	inimum of thirty from the mailing to become AB	y (30) days will be considere g date of this communicatio BANDONED (35 U.S.C. & 13:	ed timely. on. 3).
Status X) Responsive to communication(s) filed on 9/7/00	+ 11/30,	100		· .
☐ This action is FINAL .		•	•	
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935.0 	or formal matters, pro	osecution as	s to the merits is clos	ed in
Disposition of Claims		.		
V Claim(s) 1 - 8	·	is/are	e pending in the applica	tion
Of the above claim(s)				
			•	201440111
□ Claim(s) / - X		is/are	e rejected.	
□ Claim(s)				
□ Claim(s)		•		
Application Papers			rement	
☐ The proposed drawing correction, filed on	is 🗆 approved	☐ disappro	oved.	
☐ The drawing(s) filed on is/are objecte	d to by the Examiner	r		
☐ The specification is objected to by the Examiner.	•			
$\hfill\Box$ The oath or declaration is objected to by the Examiner.				
Pri rity under 35 U.S.C. § 119 (a)–(d)				
Acknowledgement is made of a claim for foreign priority und	der 35 U.S.C. § 119 (a	a)–(d).	•	
	- ;			
☐ Certified copies of the priority documents have been rec	eived.			
☐ Certified copies of the priority documents have been rec	eived in Application i	No		
☑ Copies of the certified copies of the priority documents if	nave been received			
in this national stage application from the International B				
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Attachment(s)	_			
Information Disclosure Statement(s), PTO-1449, Paper No(s)) <i>(</i>	Int rvi w Sur	mmary, PTO-413	
Notice of Reference(s) Cited, PTO-892		Notice of Info	ormal Patent Application	n, PTO-152
☐ Notice of Draftsperson's Patent Drawing Revi w, PTO-948	•			
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Office Acti	on Summary			

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

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1. Claims 1-8 are objected to or rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the claims, the intent of the "locational relationship of said waveguide to transfer direction" or similarly to "said reference point" being kept "the same" between them, is not clear for the independent claims. It would appear that a reference point can be picked wherever one wants it to be, and that something about these limitation is configured the same, or concentrically or in duplicate shifted images, etc.

Claims 2 and 3 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The performance of a film forming process or an etching process, are method limitations that provide no structural limitation to the claimed apparatus.

In claim 7, line 2 "waveguide" is objected to as lacking a correct article for showing antecedent basis, as is "a substrate" in line 5 of claim 8 or "high frequency waves" in lines 7-8, since all terms had been previously introduced.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner et al, in view of Sato or Yamazaki.

Wagner et al (abstract; figure 6 and 11, column 1, lines 15-40; column 4, lines 4-9; column 5, lines 2-31; column 6, lines 23-39+; column 7, lines 35-50+; column 10; lines 37-59+; column 11, lines 20-67+; column 12, lines 30-38; column 15; lines 10-40+, and 61-67 and column 16, lines 21-52) teach a multi-chamber processing apparatus with a centrally located vacuum tight transport chamber, equipped with a transport robot which treats each chamber the same, and is in a direct line with its opening/transport port. Each chamber may be individually vacuum tight and while batches are discussed, the number in a batch is variable/flexible and may include only one. Wagner et al is directed to generic vacuum processing and may include various etching or coating process, where it is contemplated that at least two vacuum treatment stations be present, and that they may be the same type of station. Note that Wagner et al's symmetrical configuration suggest that like individual treatment stations would be identically configured.

Wagner et al differs from applicant's claim by not specifically teaching high frequency plasma apparatus with waveguides, however Sato et al teach a process that requires two substantially identical microwave ECR chambers (Abstract; figures 2 and 4; column 3, lines 31-40; and column 4, line 62-column 5, line 5), hence it would have been obvious for one of ordinary skill in the art to make the at least two vacuum process chamber of Wagner et al, ECR microwave

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apparatus, as Sato provides the motivation of a known process using such apparatus, and Wagner et al's technique provides efficient means for also processing previous and successive treatments of the same substrate.

Yamazaki (Figures 2-3; abstract, col. 2, lines 11-14 and 61-col. 3, line 34) teaches substantially the same as Sato, and is combined for like reasons.

4. Other art of interest includes Hasegawa et al, who has another multichamber apparatus with a central vacuum tight transport chamber, and multiple substantially identical high frequency plasma stations, but they use electrodes not waveguides.

Akahori, Kanekiyo et al and Fujimura et al are of further interest for ECR microwave plasma and use of transport arms.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M.L. Padgett whose telephone number is 308-2336. The examiner can normally be reached on M-F from about 8 am to 4:30 pm.

The fax phone number for the organization where this application or proceeding is assigned is 305-5408(Official) or 305-6078 (unofficial). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0661.

Padgett:mv

May 3, 2002

May 7, 2002

MARIANNE PADGETT PRIMARY EXAMINER GROUP 1700